Office of the Deputy Commissioner

Kolar District,

Dated the 23rd August, 1920

Mr Zahiruddin Hecci, Esquire, B A

Deputy Commissioner,

Kolar District

To

B Ramaswamaiya, Esquire, B A B.T.,

Secretary to the Government of His Highness

The Maharaja of Mysore Revenue Department,

Bangalore

Sir,

With reference to your letter No 11685/M1 173-19-2 dated the 6th April 1920, I have the honour to submit herewith the letter No 673 dated the 10th June 1920 together with a copy of the resolution of the Chickballapur Municipal Council passed at their meeting held on the 27th May 1920 approving of the water-supply scheme for the town as now investigated by the Water-Supply Department

The Council are prepared to pay Rs 40,000/- towards the capital cost and pray that the balance of the cost may be met out of State funds The Council are also prepared to bear the maintenance and depreciation charges connected with the scheme

The plans and estimates, etc., are herewith returned

I have the honour to be

Sir,

Your most obedient servant,

For Deputy Commissioner

Kolar District

G. R. S VI—G/32]

SUBJECT

*Diary No. of letter replied to*

General and Revenue Secretariat

( )

*the* *191*

Date of issue 29.9.21

Signed by Dw. W.C. Subbaraya Appa

Section

File No 173-19

Serial No 8

No L 1963

To The Chief Engr-in-Chief

Sir

With reference to the cover endg with your letter no 15 2006 dated 12 Sept 1921 re the sinking of a trial well at Chickaballapur, I am directed to state that the Municipality may be

over

informed that the cost in
the experimental stage should
be borne by the manufacturer
and that only after
the scheme is sanctioned
they can expect a
contribution from the
state. Govt

Inst

Copied by

Examined by

G R. S IX 5]

*Previous references*

Ind 25-17(4,6,14) 1919-20
" Mis-18(39)
" 121-11(3-4)

*Earlier references*

Ind IW-218 1/2
Ind 19-M&W 1/2

File No 173-19

Serial Nos 1 to 8

GENERAL AND REVENUE SECRETARIAT

*Serial Nos* 1 to 7

Part B for September 1921

SUBJECT

Water Supply to Civil Station

[illegible] Chief Engineer writing here [illegible] 1763 dt 2[illegible]-21.
Directed that the Municipality of Cuddalore may be informed that the Govt in the Experimental Stage should be borne by the Municipality only after the Scheme is found to Come [illegible] Effect a Centralising

[illegible] Memo No 1644 dt [illegible]
15-10- Communicated [illegible]

G R S III—1] 191

GENERAL AND REVENUE SECRETARIAT.

(M)

NOTES.

M File No 173-19

FILE HEADING

Water Supply to Chikkballapur

From— Town Municipality Chikkballapur

| No. | Dated | Received |
|---|---|---|
| Diary No. | Enclos / Spare Copies | Serial No. |

BRIEF ABSTRACT OF LETTER

Water Supply to Chikkballapur Town Municipality.

NOTES AND ORDERS

1) The Member observes that a Scheme of water Supply to the Town is necessary and that he was not able to study

Notes,—First Sheet.

G. R. S. [illegible] 2]

13356

(2)

General and F
Secretariat

File No 173 of 1919.

Serial No.

the project
3) As the action to be taken in the matter has not been indicated the papers on the subject are put up for issue of instructions.

Flag H

DS MM 3) Mil File No 25-17-88 467-10 together with the adulterers refers received from the Chief Engr in this Connection, is also put up for reference.

4) A scheme for the supply grants to Municipalities is under investigation and final report has not been received yet

5) Subd for perusal with spl & Com notes

4757
17.5.19

MC
16-5-19

Third member)

6) Semi-official may be called for by telephone & may

Note
20/5 MM

Issue on 30-5-19
consulting
NOTE—Contd sheet

7) Draft subd for issue on 30-5-19. - for approval

DS
21/5/19

Issue
MM
21/5

G R S III-2]

13958

C3

552

General and Revenue Secretariat

MC File No. 173 of 1919

| Serial No. | |
|---|---|
| | To The chief Engr<br>No 15452 of 30-5-19.<br>Invites attention to his letter No B 4379 of 9-6-19 and requests that his final report on the investigation of the scheme for the water supply of chikballapur town may be expedited |
| Sec A 26/5 | From<br>The chief Engineer of Mysore<br>No 7848 16-7-19<br>States that a part of the machine has been received to enable him to fit the source of water supply to Chikballapur Town and on receipt of the remaining parts, the testing will be done and a final report submitted |
| | 8) Subo for information A reminder may be issued a fortnight hence, as the chief Engineer reports that full machinery will be received in a weeks' time 9) Yr 22/7 |
| Sec should have proposal ready | 22/7/19 22/7 |
| 1 | From the Chief Engineer - Bangalore<br>No. B9096 dated 2-9-20 |

NOTE—Contn. sheet

(4)

Gr. R S III-2]

General and Revenue Secretariat | MC File No 173 of 1919

| Serial No | |
|---|---|
| | Forwards for orders of Govt, an estimate amounting to Rs 1,64,400/- for water-supply to Checkballapur Town |
| G | (a) Government in their order No 8397-9/MC 28-16-4 dated 20th June 1917, sanctioned a grant-in-aid of Rs 54,000 for the water supply scheme to Checkballapur Town |
| C | The Checkballapur Municipal Council have repeatedly pleaded their inability to contribute more than Rs 30,000 towards the scheme. About Rs 40,000 that was available as the municipality for the scheme, has been utilised for various other purposes, as Govt were pleased to sanction certain deviations in their |
| X | |
| 14 | order No 7906-7 dated 25-11-10 dated 2 12 1918, to the effect that the existing water supply should be improved by the sinking fresh wells and requesting the Sanitary Engineer to submit a detailed report in the matter, which is now received |
| | (b) If the Govt contribution is deducted from the present estimate the Municipal Council will have to bear 1,10,000 Rs., the capital investment |

NOTE—Contn sheet

(5

G R. S III-2]

General and Revenue Secretariat. | ML File No 173 of 1919

Serial No

in addition to the annual maintenance charges of Rs 9665, which the Municipal propose to meet by the levy of water cess

12) The financial condition of the Municipality is as follows —

Opening Balance Rs 39,507

Receipts: Special Rs 6,500

Normal 13555

Total 59,562

Expenditure Special 33625

Normal 12595

Total 46220

Closing Balance Rs 13,342

14) A Municipal Council with the above closing balance can not contribute Rs 1,00,000 towards the water supply, but by the raising of a loan which they are to do

C. unable

During the current year there is no provision for the purpose in the Sanctioned Budget. The Municipal Council have already prayed Govt for a larger

C+

grant amounting to Rs 1,55,000

The grant-in-aid, with the Municipal amounted to Rs

Rs 84,000

NOTE—Contn sheet

6356

(6

G. R. S. III-2]

General and Revenue Secretariat.

Mc File No. 173 of 1919

Serial No.

Council

Both these Rs 30,000. Contribution has been spent away and Mc Council must be prepared to provide the sum in the next year's Budget Even then some means must be found for financing the Most of the Estimate amounting Rs 80,400, of the present project is to sanctioned The Mc Council may perhaps be requested to reconsider the matter, and if possible to raise a loan, to meet the surplus ~~Rs~~ required Submitted for orders

Rs

1-5-1920

Ind

1/5

15) Govt sanctioned Rs 54000 as a special grant in 1917 when the project was estimated at Rs 83545 Rs But now the Estimate has gone up to Rs 1,64,400 Rs. Under cl 2 of para 5 of the GO No 11030-9-ITH 156-18-1 dat 26-Feb-19 (Joint up Flag T), Govt have given an implied promise to contribute ½ the Cost of the

there was a GO that Govt will bear half the cost of all such projects ing upon person Rs 9320 / vide GO of 16/11/1916 5

the reply to the CO thus

NOTE—Contn. sheet.

(7)

G R. S III-2]

General and Revenue Secretariat.

M File No 173 of 1917

Serial No

Scheme, in case the local body is prepared to contribute the other half shows clearly its ability to bear the annual recurring charges - The M.C. Council may be asked to consider the present Estimate on this basis and submit its final views in this matter

New Secy

20 3 21

16) Considering the ~~normal~~ resources of the Municipality, the estimate seems altogether too high Even if, by the aid of a liberal Govt grant and the raising of a loan, the work may be financed, the question remains of meeting the annual maintenance charges. Such charges (including depreciation) are said to amount to over 9,000 Rs a year How a Munty the normal income of which is about 13,000 is to an expenditure of about the same amo

NOTE—Contn sheet

6304. (8

G R S III-2]

General and Revenue Secretariat | File No 173 of 1919.

Serial No.

can meet those heavy maintenance charges, and also for repayment of the loan — it is difficult to understand

17) However, the Municipalities are said to have agreed to bear the maintenance charges. Copy of their resolution is not on record.

A { 18) The question may be referred to the Director for representations the views of the Municipal Council

(2nd member)

23 3 20

6133-186
24-3-020

A 19) approved

26 3 20

20) Draft-submitted. 29/3/20

21) Draft unsatisfactory Put-up revised one as instructed

22) Revised draft-submitted 30/3/20

(23)

Under Draft to be typed

NOTE—Cont.

(New Seq) A Draft as at A also be approved Architect etc.

4 4 20

to be attached

Serial No.

(24) Pre-min orders as intimated above 10/4/20.

(25) Draft putup.

Form ML. 3/4/20 (26) Issue 5-4-20

2 To the Deputy Commr. Kolar &c
No R 11685 dt 6/4/1920
Forwards, for action, letter from the Chief Engr and requests that the subject may be placed before the Council and the resolution of the Council may be forwarded along with his opinion in the matter

3 From the Dy Commr Kolar &c-
No ZHC 146 dt 23/8/20
Forwards the records and states that the Mal CL approves of the scheme as now investigated and they propose to pay Rs 40000 and maintenance & depreciation charges & pay the balance of the cost

(27) Subject orders The financial condition of the Municipality according to

Note—Contn sheet

(C R S III-2)

General and Revenue Secretariat | ML File No 173 of 1919

| Serial No. | |
|---|---|
| | The budget for 1920-21 is as follows - |
| | Opening balance Rs 43684 |
| | Receipts normal Rs 14885 |
| | Total 58569 |
| | Expenditure normal Rs 14164 |
| | Extraordinary Rs 22000 |
| | Total Rs 36164 |
| | Closing Balance Rs 22345 |
| | The extraordinary charges do not include charges for water supply. |
| | 1/9/20 The estimate amounts to Rs 153,900. The Mill are prepared to pay Rs 40,000 towards the capital cost & pray that the balance may be met out of State funds. Govt have therefore to provide Rs 113,900 for the success of the Scheme. The amount provided in the budget for the water supply scheme is only Rs 75,000 |
| | (29) Submitted for orders |
| | 79 (30) The reply is not very convincing as to the absence of the Consent. When the |

NOTE—Contn sheet

G. R. S III-2)

General and Revenue Secretariat | Mil File No. 173 of 1919

Serial No.

annual maintenance charges. The proposal that the Council should pay only Rs. 40,000 of the capital cost & govt. the rest is also one that cannot be entertained

Mr Secy

Mr
4 9

1609-194
7 9 20

(1st Member)

Mr
6-9-20

(31) I do not think that the proposal of the Mil Dept is within the range of practical politics A Central Govt over a local Govt State funds is unthinkable as matters stand at present & the Mil Dept ought not to be consulted to a scheme of water supply, even the annual maintenance charges of which it cannot meet from its normal revenue The Mil Dept may be consulted however Council be asked to propose a less expensive Scheme

Secy
8 9 20

(32)

(33) Draft Govt

(34) Issue as recommended

MS
9 9

Secy
9/9

Secy
9 9

NOTE—Contn sheet

G. R. S III 2,

General and Revenue Secretariat

Mel File No. 173 of 1919.

Serial No. 4

To the Chief Engineer of Mysore
No R 3576 of the 4/9/20
states that for the present financial condition of the Municipality the scheme proposed appears a very costly one and requests the Chief Engineer to consider whether a less expensive scheme cannot be proposed for the Trichy

9:13

(35) Forwarded to the Financial Department for opinion (vide para 31 supra)
130

No 40
14-9-20
Mel Secretariat
14 SEP 1920

for Pl Secy to Govt

13-
1319:
Mel
13/9

1091
17/9

FC Secy)

14/9/20

(36) As I have stated in the file re Chickmagalur Water Supply Scheme if this scheme is sanctioned it will not be possible to give any large grant for any other project until that scheme is completed
Mel
20.9.20

FINANCIAL SECTION
BANGALORE.
7874 20
14-9-20

(Revised)
Govt
Mel
21/9
3
Await reply from Ch Engr
Mel 21/9

Govt Mel

Note—Contn sheet

(G R S III 2)

General and Revenue Secretariat

File No 173 of 1924

(13)

Serial No.

3 From the Chief Engr
No 9712 Dy 16 Sept 1924

To for Sanction an estimate for Rs 3640 for sinking a well at Chuckaballapur for purposes of testing at what depth water in sufficient quantities can be made available etc

Draft for Govt. for approval

It is not known whether the Govt will pay the cost

This should be ascertained first

Put up draft suggesting

Draft letter put up. 23/5

Second Member

6885
31 5 24

6 To the Chief Engr
No R 1829 Dy 6 6 24

Enquire whether the ryots willing to bear the cost of boring a well

NOTE—Contn. sheet.

G R 3 III-2]

General and Revenue Secretariat

File No 173 of 1924

1884 8454 2808

Serial No

From

The Chief Engr
no B 2008 8/12/1924

Fds copy of letter to the effect that they are unwilling to bear the cost of the proposed trial well

4/4 submitted for orders with ref to ch 5 & paras 39, 40 & 42 of the rets supra

Jan 14/9/24 B.M. 14/9/24

The trial well proposed to be sunk at a cost of Rs 3,640 at Chikballapur is for the purpose of finding out a less expensive scheme of water supply as ordered at paragraph 31 above The Municipality plead their inability to meet the cost Whether Govt could meet such a charge in the present state of finances is a point for consideration

3rd Member) —

1980 15/9/24 15/9/24

If the Municipality may be informed that the cost of the proposed trial well will be borne by the Municipality in case the scheme is sanctioned, they can expect a letter from me

Inform 20/9

NOTE—Contn. sheet

1564

G R. S III-2

General and Revenue Secretariat

ml File No. 173 of 1919.

| Serial No. | |
|---|---|
| | Chief Engr, Draft to the D.C. Kolar sent & asked for appl. Issue 21/9/21 Issue as 29/9/21 |
| 8 | To the Chief Engineer in Mysore - No L 1963 dt 29/9/21 Directs that the Inspty of Chickballapur may be informed that the cost on the experimental Stage shd be borne by the Inspty & that only after the Scheme is Sanctd it can expect a contribution from Govt. Memo No 1964 dt 29/9/21 Forwards copy to D.C. Kolar. |

MYSORE PUBLIC WORKS DEPARTMENT,

Central Office,

No. B 9086

In.29 (noted overleaf) sent separately.

Dated Bangalore, 24th February 1920.

From

The Chief Engineer of Mysore,

Bangalore

B. Ramaswamayya, Esq., B.A., B.L.,
Secretary to the Government of Mysore,
Revenue Department, Bangalore.

Sir,

With reference to G.O.No.7906-7/Ml.25-17-10 dated 21st December 1916, I have the honour to forward for favour of obtaining orders of Government on the subject, an estimate amounting to Rs.1,64,405/- for water supply to Chikballapur Town, Kolar District

2. The source of supply will be from a well above the bed of Gopalakrishna Tank (vide plan).

3. Provision has been made in the estimate for a duplicate plant as in pumping schemes generally it is not advisable to depend only on one engine and pump

4. The other details of the project are explained in the report accompanying the estimate

5. Favour of sanction to the project is requested

I have the honour to be,
Sir,
Your most obedient servant,

For Chief Engineer of Mysore.

T.R.S./24-2.

Enclosures.

1 Report.
1 General Abstract.
8 Detailed estimates;
7 Tracings.
1 Ferro Plan.
1 Calculation sheet.
2 Discharge statements.
1 Resolution of the Municipal Council
1 Report from the Public Health Institute
1 Annual maintenance estimate
1 Final Report.
4 Plans.

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Cr 207

@ R. S. VI—G/32]

SUBJECT ..

Diary No of letter replied to 6304

Section 17
File No 173-19
Serial No

GENERAL AND REVENUE SECRETARIAT
( )
the 191

No 1685

Date of issue 6-4-20

To

The Deputy Commissioner
Kolar District

Signed by Mysore Ramaswamy

Sir,

I am forwarding herewith a copy of letter no. B 9096 dated 24th February 1920 from the Chief Engineer of Mysore together with its enclosures with original

Tobe returned with the reply
Cur

Water supply scheme
of Chickballapur
Town, I am directed
to request that you
may be so good
as to place the
question once
again, before the
municipal Council
and submit your
views along with
the resolution of
the municipal Council
in the matter at a
very early date.
I have etc —

ar

19

From

The Deput. Commissioner,
Kolar District

To

The Secretary to the Govt. of
of Mysore, Revenue Departme

Dated 25.8.20. Bangalore

Despatched 26/8/20

Received

General No. 1742 Misc
No.

Enclosure No.

Re Water Supply Scheme to Chik-
ballapur Town.

Letter No. M 11285 dated Bangalore the 6th ~~February~~ April 1920 from the Secretary to Government of His Highness the Maharaja of Mysore, to the Deputy Commissioner Kolar District.

---

In forwarding herewith a copy of letter No 9096 dated 24th February 1920 from the Chief Engineer of Mysore together with its enclosures in original regarding the water supply Scheme of Chickballapur Town, I am directed to requestxxxx that you may be so good as to place the question once or in before the Municipal Council and submit your views along with the resolution of the Municipal Council in the matter at a very early date

2 To be returned with the reply - -----

F 452 1920.

Office of the Deputy Commissioner,
Kolar District.

No. L 7 H-C 1416 Dated, Kolar the 12th April 1920

Encl: Plan of Estimates Proposed Plans

M E M O

Copy of the above together with Traces and Estimates is forwarded to the President Chickballapur Municipal Council for needful action

For Deputy Commissioner
Kolar District

OFFICE OF THE PRESIDENT, DISTRICT BOARD KOLAR

Encl: Plan of Estimates Proposed Plans

No. 673

MEMO

Has the honour to state that the subject was placed before the Council in their meeting dated 27.5.20. They are prepared to pay Rs 40000/ towards the

Read for information

Place before the Council meeting to be held on the 14th June 1920

14/6

Capital Cost and pray
bear the rest. The municipality is also
prepared to bear the annual maintenance
and depreciation Charges as they are
now steering their best to augment
their resources by imposing professions
and other taxes. The entire Records are
enclosed.

D Nikhal Sanyal
President
10. 6. 1920

Proceedings of the 11th Ordinary meeting of the Chittoor Municipal Council held on 27 5 20

Present
S Venkatakangam Esqr BA BL President

× × × ×

Read Deputy Commissioners
L Mc 1460/12 A 1920 ordering estimates and plans re. Water Supply to Chittoor

Resolved that the Municipal Council approves of the Scheme, and they are prepared to pay Rs 40,000 towards Capital cost and pray Government to bear the rest; the municipality is prepared to bear maintenance charges as they are now observing their best to augment their resources

× × ×

Signed S Venkatakangam
Presedent
27 5 20

Extract
Under orders of the Deputy Commissioner
Ag President

Letter No.E.9096 dated 24th February 1920 from the Chief Engineer of Mysore to the Secretary to Government, Revenue Department, Bangalore

---

With reference to Government Order No 7906-7/M1 25-17-10 dated 21st December 1918, I have the honor to forward for favour of obtaining orders of Government on the subject, an estimate amounting to Rs.1,64,400/- for water supply to Chickballapur Town, Kolar District.

2 The source of supply will be from a well above the bed of Gopalakrishna Tank (vide plan)

3. Provision has been made in the estimate for a duplicate plant as in pumping schemes generally it is not advisable to depend only on one engine and pump.

4. The other details of the project are explained in the report accompanying the estimate

5 Favour of sanction to the project is requested

---

" C O P Y "

for Secretary to Government,
Revenue Department

Report to accompany the detail Estimate for Water Supply to Chickballa-pur Town.

---

Government recorded approval to a priliminary Estimate amounting to Rs 83515/- for the Water Supply to this Town and called for detailed Estimates in their No 6037-9/ Ml. 126-13-1 dated 29 th. June 17.

2. Two alternative detail Estimates amounting to Rs 139380/- and 199350/- with report were submitted to Government who in their No 6612 M. M425-17-7 23 May 18 ordered that a single final project be submitted, fixing the source of supply after investigating its efficiency and making sure ofits wholesomeness for drinking purpose.

3 The necessary investigation has been completed and the source of water supply to the Town , namely a well to be excavated at B, above bed of Gopalakrishna Tank vide plan is found to be efficient and to yield a plentiful supply, as separately reported in detail. The quality of water has also been tested by the Public Health Institute and the water is declared to be fit for human consumption in the Director of Public

Public Health Institute No. 636 dated 18-9-19, copy enclosed .

4. The scheme costing Rs 139380/- referred to above being the cheaper one is now reestimated , providing rates that will suit the present time and making some minor changes in the estimate for the well, ( vide detail estimates and Comparative statement E . The estimate now amounts to Rs 1,53,900/- and sanction to this estimate is solicited. By the time we actually order for the materials , it is believed that prices may go down further

3 The scheme briefly is as follows

The present population is 9100. Provision is made for 12000 prospective population , at 10 gallons per head per day

A well 30' in diameter and 30' deep will be sunk at point B. vide plan above the bed of Gopalakrishna tank From the well the water will be pumped through a 6" C I main by means of a Worthington Pump worked by a suction Gas engine, to a service reservoir located at point P. behind Taluk Office. The distance is 6100'.

The reservoir which will hold one day's supply will be an elevated masonry tank 18' above the ground level, designed to command the whole town and distribution to the Town will be throu

through 22 C.I. Fountains located in convenient centres as pointed out by the Municipal Councillors .

6. The Annual Maintenence and de-preciation charges will be Rs 9580/- vide Statement. The Municipality appear to have contributed Rs 40,000/- towards capital cost . The rest they pray Govern-ment to bear. The Municipality will bear the maintenence charges vide copy of their Resolution dated 11 th Sep-temper 1918.

Bangalore ,
Dated 21-11-1919

Executive [illegible],
Sanitary Divi[illegible]

round the steining having got fill-
-ed with stiff sudde mixed with pebbles
the resistance is too strong to be over-
-come notwithstanding the heavy load of
stones on the curb.

3. At this stage the test of the yield in the well was conducted . The water level in the well was 13 feet be-
-low ground and there was 23 feet of water . Moreover there was practically no water in the Gopalakrishna Tank at the time of test. The well was pumped down up to 36 feet and the rate of re-
-coupment was observed at equal interval of one hour . This test was repeated for 5 days and the mean of the results obtained has been plotted ( vide encle-
-sure ) and it is noticed from the curve that the first 16 feet of water is re-
-couped in 5 hours at most a uniform rate . This rate of recoupment which may may be assumed as 3 feet per hour works out to a yield of - .3 gallons per mi-
-nute per square foot of well area as per calculations noted in the margin.

4. If the result is compared with the result derived by Mr. H.C.B. Shan-
-bridge Sanitary Engineer to Government of Bombay in a series of yield tests conducted on Sind and Nassick wells , where there is practically an inexhaust-
-able sub soil supply to draw on and published by him in the minutes of Pro-

$$\text{area} = \frac{\pi d^2}{4} = \frac{22}{7} \times \frac{4^2}{4} \times \frac{8}{7} = 12.5 \text{ sft.}$$

Quantity recouped in 1 hour =

$$\frac{16}{2} \times 3 \times 6\frac{1}{4} = 232 \text{ gallons .}$$

Quantity recouped in 1 minute per sq. ft. of well area $= \frac{232}{60 \times 12.5} =$

= .3 gallon.

-ration be also 30' ( say)

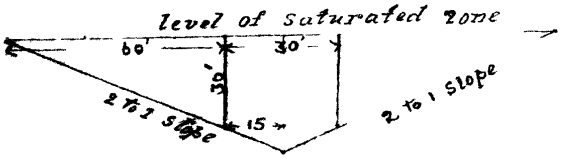
Proceedings of the Bombay Engineer-ing Congress of 1917 with two Graphs, a copy of which is herewith attached, it is observed that the trial well has reached the permanent Zone of water at a depth of ( 36-16 ) or 20 feet below the ground. Even allowing for the exigencies of worse dry years in future than the present one it is safe to assume that the permanent zone of saturation is reached at 30 feet below ground.

5. Thus, having determined the level of permanent zone, it is an easy matter to fix the depth of the well to answeer the daily requirements of water supply to Chikballapur Town. From the tests conducted by Mr. Shan-bridge, the results show that the yield per minute per sq. foot of well area is directly proportinal to the diameter of the well for similar head of depression.

6. To start with, the following assumptions may be safely made viz

(1) Sudde with large 1-of sand c.. yield per day 1 gallon of water p.. cubic foot.

(2) The slope of the cone of satur.. is to be as ste p as 2:3.




7. Let the diameter of the proposed well be 30 ft and the depth of the well to the top level of permanent zone of saturation be also 30' ( say)

Then the volume of the frustrum of the cone $= \frac{1}{3} \pi h ( R^2 + Rr + r^2 )$ where h is the perpendicular height of the frustrum, R and r the respec-tive radii of the ends of the frus-trum i.e. Volume $= \frac{1}{3} \times \frac{22}{7} \times$

$( 75^2 + 75 \times 15 + 15^2 )$

$= \frac{1}{3} \times \frac{22}{7} \times 30 \quad ( 5625 + 1125 + 225 ) =$

219210 cft.

This is equavalent to getting a daily supply of 219210 gallons . But the daily requirement for Chikballa-pur Town supply is only 150000 gal-lons. So if the well is of 30' dia-meter and ( 30 + 30 ) or 60 feet deep it will very well answer the purpose The Provision in the Estimate is for 75 feet depth which is 15 feet more than the calculated depth.

8. From the above consideration the source of water supply to Chik-ballapur Town may be accepted as satisfactory and fixed at the point tested.

The quality of water has been tested and it is declared to be fit for consumption.

Executive Engineer,
Sanitary Division

Dated 18-9-19)
Bangalore . )

Water supply to Chickballapur town

GRS 26] 4/4

Diary No of letter replied to 1921

Ml File No 473-19
Serial No 4

No R 35768 11 9 20
Encs Plans & Estn

General and Revenue Secretariat
( )
the 19

To
The Chief Engineer of Mysore

Sir,

Date of issue 11-9-20

Signed by M. M. V. Ramachandra Iyer

With reference to your letter no. IS 9096 dated 24/2/920, forwarding an estimate amounting to Rs 1,64,400/- for water supply to Chickballapur town, I am directed to state that for the present financial condition of the Municipality the scheme appears to be a very costly one

over

SUBJECT
Water supply to Chickballapur town.

Mr Cl. consider that they can contribute only Rs 40,000/- towards the capital cost, but a contribution of the balance from state funds cannot be thought of at present as matters stand at present they cannot conveniently meet the maintenance charges from the normal revenue

2. I am therefore to request you to be so good as to consider whether a less expensive scheme cannot be prepared for the Mty the annual maintenance charges should not be well within the normal revenue of the Mty to enable the Mr Cl to finance the scheme with less trouble.

3. The plans and Estimates are herewith returned for reference

Yours

Copied by

Examined by

GPB—20,000—25-9-19

9/5/20

124

No.B. 9712

1 Estimate.
1 Report.

MYSORE PUBLIC WORKS DEPARTMENT,
Central Office,
Dated Bangalore, 16th May 1921.

SECTT
AY 1921

From

S. CADAMBI, ESQUIRE,
Chief Engineer or Mysore,
B a n g a l o r e

D N° 8508
18.5.21

To

Mul 173-19-5

B. Ramaswamaiya, Esq., B.A., B.L.,
Secretary to the Government of Mysore,
Revenue Department, B a n g a l o r e

Sir,

With reference to your letter No.R 3576/Ml 173-19-4 dated the 11th September 1920 enquiring, for reasons given, whether a less costly scheme for water supply to the Chickballapur Town than the one prepared for ₹ 1,64,400 cannot be proposed for the Municipality, I have the honour to state -- that the only way of reducing the cost of the work is to find a sufficient source of supply as near to the town as possible and to reduce the number of public fountains to the minimum -- requirements of the town

2. The question regarding the source of supply seems to have been carefully gone into by Dr Smeeth of the ------ Geological Department some time ago A series of levels were taken right across the alluvial flat East of Kandavara Tank bund. Eight bore holes were put down to get information as to the extent and lie of the sandy bed which had been tapped and it was considered that a well if sunk near bore hole ---- No.4 ought to yield an ample supply of water to the town

3. An estimate amounting to ₹ 3,640/- has been now got up for sinking a well at this place and it is proposed to --

to carry out tests regarding yield from the well during the hot weather this year. If the tests are found satisfactory it may be possible to recommend a much cheaper scheme for the orders of Government.

4. The estimate amounting to ₹ 3,640/- for sinking a trial well is herewith forwarded for obtaining orders of Government thereon.

I have the honour to be,

Sir,

Your most obedient servant,

FOR CHIEF ENGINEER OF MYSORE.

T.R.S./16-5/2.

G R S, 26]

File No 173-19
Serial No 6
Ex 2
No R 13629

*Diary No of letter replied to*

General and Revenue Secretariat
( )
, *the* 19

To
The Chief Engr in Rajs

Sir,

Date of issue 6th June 1921

Signed by Mr Sr. Narver

In returning herewith the enclosures received with your letter No 6 9712 dated 16th May 1921 re the sinking of a trial well at Chuk at an estimated cost of Rs 3660, I am directed to enquire whether the well

over

SUBJECT

is

~~and if so~~, the estimate
may be got Counter signed by the President of the
~~in token of approval~~
and returned to this office

Last of enclosures,

Copied by

Examined by

GPO—60,000—26-2-10

No B 2006
Env

REV SECTT
SEP 1921
7

MYSORE PUBLIC WORKS DEPARTMENT,

CENTRAL OFFICE,

*Dated Bangalore* 10 15 Sept., *1921*
12

FROM

S CADAMBI, Esq,

*Chief Engineer of Mysore, Bangalore.*

REVENUE & JUDICIAL SECRET
No. 1584
12 SEP 1921
LOCAL SELF GOVT
BRANCH

To

The Secretary to Government,

Revenue Department, Bangalore

Jud 173-19-67

Sir,

With reference to your letter No.R.13629/M1 173-19-6 dated the 6th June 1921, enquiring whether the Municipality is willing to bear the co t of sinking a trial well at Chickballapur, estimated at Rs.3,640/-, I have the honour to forward, for information, a -- copy of the Municipal Resolution wher in the Council plead their inability to bear the cost of the proposed trial well

I have the honour to be,

S i r,

Your most obedient servant,

For CHIEF ENGINEER OF MYSORE

A N/8-9

Proceedings of the ordinary 1st Meeting of the Chickballapur Town Municipal Council held on 27th July 1921.

Present

S. Venkat Rangan, Esquire, B.A ,B L., President

X X X X

XI. Read letter No.42 dated the 4th July 1921, from the ---- Executive Engineer, Sanitary Division, Bangalore, forwarding an estimate for sinking a trial well at Chickballapur in connection with the Water Supply Scheme at a cost of Rs 3,640/-

As the Water Supply Scheme to this Town, which is a costly measure, has been ordered to be kept by for the present by the Government the Municipality pleads inability to bear the cost of the proposed trial well.

X X X X

Sd S. Venkat Rangam,
President
27-7-21.

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"Copy"

Assistant Secretary to Government,
Public Works Department

A.N/8-9.